



Project Brief: Ice Cream Ordering System



Cavallo is an ice cream shop in Seaton Delaval, Northumberland (Address: Avenue Crescent, Seaton Delaval, Northumberland NE25 0DN). They are looking to expand their operations and introduce an online ordering a delivery system. Your team have been commissioned to produce a prototype system for their evaluation. They would like customers to be able to order ice cream for delivery (orders should be placed by closing time) or for collection (orders will be ready within 10 minutes of collection and the last order for collection should be placed 15 minutes before closing time). The maximum delivery distance is 5 miles (radial distance) from the shop.

Cavallo has a number of flavours of ice cream available:

- Plain vanilla (also available as a dairy free option)
- Honeycomb
- Rum and Raisin
- Mint
- Cherry
- Chocolate
- Salted Caramel (this has a 75p surcharge)
- Strawberry

这有75便士的附加费

While Cavallo offer their ice cream with various types of cones and tubs, for the prototype system you should only considerer selling tubs of ice cream:

Size	Price (including VAT) 包括增值税
Small	£1.75
Medium	£2.25
Large	£2.75
Extra Large	£3.50
Extra Extra Large	£5.75

The shop is open 7 days a week from 11:00-18:00

It is expected that groups will deliver all basic requirements.

Basic Requirements

The implemented system should have the following functionality:

- Allow customers to place orders for delivery or collection.
- Provide reports to Cavallo about the number of orders per day/week/month.
- Provide statistics to staff regarding the popularity of flavours
- Use a dummy payment merchant system, HorsePay which simulates users paying with their card.

向员工提供有关
不同口味受欢迎
程度的统计信息

使用虚拟支付商家系统

(<http://homepages.cs.ncl.ac.uk/daniel.nesbitt/CSC8019/HorsePay>)

These requirements should be refined into a set of deliverables by your team. It is expected that groups will deliver all basic requirements.

Assumptions

- The shop is open 11:00-18:00 every day.
- The shop will not accept delivery orders placed by people more than 5 miles away.
- The ice cream shop will always have sufficient stock to fulfil orders.

Possible Extensions

You may want to consider some extensions, for example:

- Generate a delivery schedule for a delivery driver. This should have the order number and the customer contact details and address for each

order placed. You can assume that there are three delivery drivers available during the hours of operation.

- Provide advanced analytical presentations for Cavallo. For example, you could provide graphs showing the popularity of ice cream flavours, as well as the general locations of customers requesting deliveries.

Your team can add other extensions if they like, however please check with Dan or John if the proposed extensions are suitable before starting to implement them.